EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	10728	shortest adj path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:02
S2	1434	cost same S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:02
S3	384	probability and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:03
S4	602	S2 and "370"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/06 17:04
S5	171	S3 and "370"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/07 10:35
S6	789	SRG or (shared adj risk adj group)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/07 10:36
S7	10728	shortest adj path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/07 10:36
S8	27	S7 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/07 10:36

| S9 | 29 | (US-20020191545-$ or US-20050249185-$ or US-20040042406-$ or US-20050083936-$ or US-20060109853-$ or US-20050237950-$ or US-20030118027-$ or US-20030118024-$ or US-20050249186-$ or US-20060051090-$ or US-20030147352-$ or US-20020186665-$ or US-20050025058-$ or US-20030026268-$ or US-20060039696-$ or US-20040205239-$ or US-20040205237-$ or US-20040205236-$ or US-20040190445-$ or US-20040165532-$ or US-20040205238-$ or US-20030174644-$ or US-20040258409-$).did. or (US-7020086-$ or US-6836756-$ or US-7187652-$ or US-6996514-$ or US-6928484-$ or US-6882627-$).did. | US-PGPUB; USPAT | OR | ON | 2007/03/07 15:08 |
| S10 | 18 | S9 and graph | US-PGPUB; USPAT | OR | ON | 2007/03/07 15:08 |

S11	29	(US-20060109853-$ or US-20060051090-$ or US-20060039696-$ or US-20050249186-$ or US-20050249185-$ or US-20050237950-$ or US-20050083936-$ or US-20050025058-$ or US-20040258409-$ or US-20040205239-$ or US-20040205238-$ or US-20040042406-$ or US-20040205237-$ or US-20040205236-$ or US-20040190445-$ or US-20040165532-$ or US-20030174644-$ or US-20030147352-$ or US-20030118027-$ or US-20030118024-$ or US-20030026268-$ or US-20020191545-$ or US-20020186665-$).did. or (US-7187652-$ or US-6928484-$ or US-7020086-$ or US-6996514-$ or US-6882627-$ or US-6836756-$). did.	US-PGPUB; USPAT	OR	ON	2007/03/08 12:07
S12	184959	signaling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 12:07
S13	20357	network adj controller	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 12:07
S14	4412	S12 and S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 12:07
S15	2	S11 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:14

| S16 | 479 | ("20050025058" "4811337" "5448723" "6112249" "6195351" "6366556" "6408182" "6542934" "6563979" "6795393" "6980711" "6996065" "20020067693" "20020152320" "20020186654" "20020197004" "20030126287" "20030126299" "20040105136" "20040151124" "20040184402" "20040252935" "20050063309" "20050091350" "20050174989" "20050190704" "20050207337" "20050243711" "20050270972" "20050271060" "20060002291" "20060067210" "20060067243" "20060164976" "20060171316" "20060220831" "20060291381" "20070047556" "4951280" "5551047" "5805920" "6028858" "6724880" "20010038480" "20040255049" "5781528" "5604740" "5812553" "5875037" "5966730" "4633246" "4924457" "4939752" "5570466" "5661779" "5793746" "6058116" "6061807" "6061807" "6075629" "6195349" "6434288" "6711125" "6744727" "6760302" "6823470" "6850705" "6883108" "6895441" "6909695" "7007189" "7035937" "7093027" "7124187" "20020016933" "20020071392" "20020097680" "20020105904" "20020163682" "20030005149" "20030009582" "20030018812" "20030021227" "20030023749" "20030023893" "20030048782" "20030084367" "20030088698" "20030112749" "20030145246" "20030147352" "20030152024" "20030174644" "20030223357" "20030227877" "20030233474" "20030235154" "20040081087" "20040109687" "20040120705" "20040123050" "20040153496" "20040218525" "20040223451" "20040246896" "20040246912" "20040246973" "20040247317" "20050071484" "20050094554" "20050174934" "20050177634" "20050237950" "20050265255" "20050265258" "20060036892" "20060045007" "20060085575" "20060120346" "20060171301" "20060171717" "20060198298" "20060203720" "20060256712" "20070014573" "20070038767" "5313631" "5485576" "5948108" "6065062" "6222820" "6222820" "6253230" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/03/08 14:15 |

EAST Search History

S17	4981	370/216,217,221,222,223,224,225, 226,227,228,238,248,250.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:16
S18	78	S16 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:45
S19	7	stochastic and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:46
S20	17	stochastic and path and (risk adj group)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/08 14:46

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Stochastic approaches to compute shared mesh restored lightpaths in optical network architectures

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Abstract
We assess the benefits of using statistical techniques to ascertain the shareability of protection channels when computing shared mesh restored lightpaths. Current deterministic approaches require a detailed level of information proportional to the number of active lightpaths, and do not scale well as traffic demands and network grow. With the proposed approach, we show that less information, independent of the amount of traffic demand, is sufficient to determine the shareability of protection channels with remarkable accuracy. Experiments also demonstrate that our approach yields faster computation times with no significant penalty in terms of capacity usage.

Index Terms
Inspec
   Controlled Indexing
   channel allocation optical fibre networks statistical analysis telecommunication traffic wavelength division multiplexing

   Non-controlled Indexing
   DWDM computation times dense wavelength division multiplexing optical network architectures protection channel shareability restored lightpaths shared mesh lightpaths statistical techniques stochastic approach traffic demand

Author Keywords
Not Available

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